Switching Input

HAI Source (Also Assumed to be FCC Model Source)

Selected to be consistent with BHCA limit assuming

Switch Capacity Real-Time (BHCA) -- 1 through 4

Switch Capacity Traffic (BHCCS) -- 1 through 4

average holding time of 5 minutes

Processor Feature Loading Multiplier - normal

cessor Feature Loading Multiplier - heavy business

HAI estimate HAI estimate

Processor Feature Loading Multiplier --

HAI estimate

Operator Traffic Fraction

Trunk Port, per end

HAI experience and expertise

HAI experience and expertise

AT&T Capacity Cost Study, AT&T judgment

Entrance Facility Distance, miles

HAI assumption

POPs per Tandem Location

HAI assumption

Local Business/Residence DEMs; Intrastate

Business/Residence DEMs; Interstate

HA! estimate

Business/Residence DEMs

Residential and Business Holding Time Multiplier

HAI estimate

ICO STP Investment, per line (equipment);

ICO Local Tandem Investment, per line; ICO OS Tandem Investment, per line;

ICO SCP Investment per line (equipment);

ICO SCP - STP per line (wirecenter);

ICO Local Tandem Investment, per line (wirecenter);

ICO OS Tandem Investment, per line (wirecenter);

ICO Tandem A Links and C Links per line (wirecenter)

HAI estimate

Real-time Limit, BHCA

HAI experience and expertise

Maximum Port Fill

HAI estimate

Common Equipment Intercept Factor

HAI expertise

STP Maximum Link Fill

HAI engineering judgment

Minimum STP Investment, per pair

HAI judgment

C Link Cross Section

HAI assumption

Fraction of BHCA requiring TCAP

HAI assumption

SCP Investment/Transaction/Second

HAI assumption

Operator Investment per position;

HAI experience

Operator Maximum Utilization, per position, CCS;

Operator Intervention Factor Lot Size, Multiplier of Switch Room Size

HAI estimate

Switch Room Size, sq ft 1 and 2

HAI experience and expertise

Construction Investment, sq ft 1 through 5

HAI estimate

Switching Input

HAI Source (Also Assumed to be FCC Model Source)

Land Investment, sq ft 1 through 5

OC-48 ADM, installed, 48 DS-3s and 12 DS-3s

OC-3/DS-1 Terminal Multiplexer, installed, 84 DS-1s

Investment per 7 DS-1s

Number of Fibers

Pigtails, per strand

Optical Distribution Panel

EF&I, per hour and hours

Regional Labor Adjustment Factor (see Labor Inputs)

Channel Bank Investment, per 24 lines

Fraction of SA Lines Requiring Multiplexing

Regenerator, installed

Regenerator spacing, miles

DCS installed, per DS-3

Transmission Terminal Fill (DS-0 level)

Fiber Investment, fiber cable; buried fraction; buried sheath addition

Fiber Investment, buried placement; conduit placement

Fiber Investment, conduit; spare tubes per route

Fiber, pullbox spacing

Fiber Investment, pullbox investment

Fiber, aerial fraction

Fiber, pole spacing, feet

Fiber Investment, pole material and pole labor (basic)

Fraction Poles and Buried/Underground Placement

Common with Feeder

Threshold value for off-ring wire centers, total lines

Intertandem fraction of tandem trunks (additive)

Remote-host fraction of interoffice traffic -- remote and host

Maximum nodes per ring

Ring transiting traffic factor

Switch line size - 1 through 4

BOC remote per line inv - 2

HAI estimate

HAI experience and expertise

HAI experience and expertise

HAI experience and expertise

Common practice and HAI engineering judgment

HAI estimate

HAI estimate

HAI estimate

Variety of sources

HAI experience and expertise

HAI approximation

HAI approximation

HAI field experience

HAI experience and expertise

HAI judgment

.

HAI experts

HAI judgment

Several suppliers

Common practice

Verbal information

Team of outside plant experts

Accounts for the mix of density zones applicable to

interoffice Transmission facilities

Several sources

Team of outside plant engineers

HAI judgment

HAI judgment

Typical value

HAI judgment

HAI judgment

Derived on basis of forced amalgam of host, remote &

standalone switch investments

Derived on basis of forced amalgam of host, remote &

standalone Switch investments

GTE Service Corporation July 23, 1999

Date: Sun Jan 19, 1997 01:05 pm EST John C. Donovan / MCI ID: 215-2655 From: * Dean Fassett / MCI ID: 215-5464 TO: CC: CC: CC: Dick Chandler / MCI ID: 439-0695 CC: CC: CC: CC: Robert Mercer / MCI ID: 437-6763

Subject: Surface Texture Conditions

Message-Id: 31970119180513/0002152655PK5EM

Dean,

CC:

At the FCC Joint Board hearings, it became obvious that even though surface texture and slope are unimportant factors compared to competitive bidding, ignoring such indicators doesn't sell well to the uninformed. Therefore, we are planning to incorporate this items in the Hatfield Model version 3.

Attached is an excerpt from BCM2 on surface texture indicators. 'O' means that BCM ignores them as far as having any effect on trenching and plowing. '1' means that BCM applies a multiplier. I would propose continuing with the same 0 and 1 indications, unless you or a contact you make think otherwise. I have added 2 columns to the spreadsheet. One to indicate whether we believe the USGS indicator applies throughout the entire CBG, or whether only a portion of the CBG is likely to be effected. The other column is for an expert opinion as to the effect of the soil condition on the cost.

. We need to lock this down ASAP. If you could make up some default numbers today, we could always change them before publishing the model.

John Donovan

Enclosures:

BINARY:SURFTEX.XLS saved in C:\MAILROOM\ENGLOSE\SURFTEX.XLS

FASSET 188

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Suri		1	****	T`a	
Sur	ınce	1 61	Ture		me

					Effect:	
	Impact? 0 = No			% of CBG likely	e.g., 1.5 = 50%	
Testure	I = Yes	1101	Description of Texture	effected	more	Remarks- discussions with Contractor
	0		Blank	N/A	N/A	on 1/19/97
BY	1	0	Bouldery	— N/A	N/A	Most of the soil textures would
BY-COS	1	0	Bouldery Course Sand	N/A	N/A	not have an effect on large
BY-FSL	1	0	Bouldery & Fine Sandy Loain	N/A	N/A	volume job. Contractors simply
BY-L	1	0	Bouldery & Loam		N/A	would use larger equipment to
DY-LS	1	0	Bouldery & Sandy Loam	— N/A	N/A	perform the work operation.
BY-SICL	i	0	Bouldery & Silty Clay Loam	N/A	N/A	Solid rock and swampy conditions
3Y-SL	1	0	Bouldery & Sandy Loam	N/A	N/A	have more of an effect than any
BYV	1	1	Very Bouldery	10	1.1	other condition. Some soil textures
BYV-FSL	1	1	Very Bouldery & Fine Sandy Loam	10	1.1	will have an effect on trenching
BYV·L	1		Very bouldery & Loamy		1.1	and not effect plowing operations
BYV-LS	1	1	Very Bouldery & Loamy Sand		1.1	et all.
DYV-SIL.	1	ī	Very Bouldery & Silt	10	1.1	
BYV-SL	ı	1	Very Bouldery & Sandy Loam		1.1	
DYX	i	1	Extremely Bouldery	15	1.3	
DYX-FSL		i	Extremely Bouldery & Fine Sandy Loam	15	1.3	Would effect trenching operations only
BYX-L	1	1	Extremely Bouldery & Loamy	15	1.3	Would effect trenching operations only
DYX-SIL	 	 	Extremely Bouldery & Silt Loam	15	1.3	Would effect trenching operations only
BYX-SL	1	 	Extremely Bouldery & Sandy Loam		1.3	Would effect trenching operations only
C	0	0	Clay	N/A	N/A	• • • • • • • • • • • • • • • • • • • •
CB	0	0	Cobbly	N/A	N/A	
CB-C	0	0	Cobbly & Clay	— N/A	N/A	
CB-CL	Ü	0	Cobbly & Clay Loam	— N/A	N/A	•
CB-COSL	0	0	Cobbly & Coarse Sandy Loam	N/A	N/A	
CB-FS	0	1	Cobbly & Fine Sand		1.1	Would effect trenching operations only
CB-FSL	0	1	Cobbly & Fine Sandy Loam		1.1	Would effect trenching operations only
CB·L	0	0	Cobbly & Loamy	— _{N/A}	N/A	
CB-LCOS	0	0	Cobbly & Loamy CourseSand	N/A	N/A	
CB-LS	U	0	Cobbly & Loamy Sand	N/A	N/A	
CB-S	0	 	Cobbly & Sand		1.1	Would effect trenching operations only
CB-SCL	0	0	Cobbly & Sandy Clay Loam	N/A	N/A	or and an arrange of the second of the secon
CB-SICL	0	0	Cobbly & Silty Clay Loam	N/A	N/A	
CB-SIL	0	0	Cobbly & Silt Loam	— N/A	N/A	
CB-SL	 	1	Cobbly & Sandy Loam	— ' <u>"</u>	1.1	Would effect trenching operations only
CBA	 	 	Angular Cobbly	- NA	NA	TT SHOOL WENDING OPERATIONS OINY
		<u> </u>			1111	

HIGHLY CONFIDENT AL SUBLECT TO PROJECTIVE ORDERS - AND PARTY CONFIDENTIAL AGREEMEN

Page 1

CDA-FSL	ı	1	Angular Cobbly & Fine Sandy Loam	10	1.1	Would effect trenching operations only
CBV		1	Very Cobbly	10	1.2	Would effect trenching operations only
CBA·C	ı	ı	Very Cobbly & Clay	10	1.2	Would effect trenching operations only
CBV-CL	ı	1	Very Cobbly & Clay Loam	10	1.2	Would effect trenching operations only
CBV-FSL	1	1	Very Cobbly & Fine Sandy Loam	10	1.2	Would effect trenching operations only
CBV-L	ı	1	Very Cobbly & Loamy	10	1.2	Would effect trenching operations only
CBV-LFS	1	1	Very Cobbly & Fine Loamy Sand	10	1.2	Would effect trenching operations only
CBV-LS	1		Very Cobbly & Loamy Sand	10	1.2	Would effect trenching operations only
CBV-MUC	l	1	Very Cobbly & Muck	10	1.2	Would effect trenching operations only
CBV-SCL	1	ı	Very Cobbly & Sandy Clay Loam	10	1.2	Would effect trenching operations only
CBV-SIL	1	1	Very Cobbly & Silt	10	1.2	Would effect trenching operations only
CBV-SL	-	1	Very Cobbly & Sandy Loam	10	1.2	Would effect trenching operations only
CBV-VFS	l .		Very Cobbly & Very Fine Sand	10	1.2	Would effect trenching operations only
CBX	1		Extremely Cobbly	15	1.2	Would effect trenching operations only
CBX-CL	l	1	Extremely Cobbly & Clay	15	1.2	Would effect trenching operations only
CBX-L	ì		Extremely Cobbly Loam	15	1.2	Would affect tranching operations only
CBX-SIL	<u> </u>	-	Extremely Cobbly & Silt	15	1.2	Would effect trenching operations only
CBX-SL	ı		Extremely Cobbly & Sandy Loam	15	1.2	Would effect trenching operations only
CBX-VFSI.			Extremely Cobbly Very Fine Sandy Loam	15	1.3	Would effect tranching operations only
CE	0	0	Coprogenous Earth	N/A	N/A	- ,
CIND	0	0	Cinders	N/A	N/A	
CL	0	0	Clay Loam	N/A	N/A	
CM	l	1	Comented	15	1.3	
CN	0	0	Channery	N/A	N/A	
CN-CL	0	0	Channery & Clay Loam	N/A	N/A	
CN-F\$L	0	!	Channery & Fine Sandy Loam	5	1.1	Would effect trenching operations only
CN-L	0	0	Channery & Loam	N/A	N/A	
CN-SICL	0	0	Channery & Silty Clay Loam	N/A	N/A	
CN-SIL	U	0	Channery & Silty Loam	N/A	N/A	
CN-SL	0	0	Channery & Sandy Loam	N/A	N/A	
CNV	0	0	Very Channery	N/A	N/A	
CNV-CL	0	0	Very Channery & Clay	N/A	N/A	
CNV-L	0	0	Very Channery & Loam	N/A	N/A	
CNV-SCL	0	0	Channery & Sandy Clay Loam	N/A	N/A	
CNV-SIL	0	0	Very Channery & Silty Loam	N/A	N/A	
CNV-SL	U	0	Very Channery & Sandy Loam	N/A	N/A	
CNX	0	0	Extremely Channery	_ N/A	N/A	
CNX-SL	0	0	Extremely Channery & Sandy Loam	N/A	N/A	
COS	0	0	Coarse Sand	N/A	N/A	
COSL.	0	0	Coarse Sandy Loam	N/A	N/A	

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CR	0	ı	Cherty	10	1.2	limestone-would naturally depend on depth
CR-L	1	1	Cherty & Loam	10	1.2	
CR-SICL			Cherty & Silty Clay Loam	10	1.2	
CR-SIL.	- i	ī	Cherty & Silty Loam	10	1.2	
CR-SL		ı	Cherty & Sandy Loam	10	1.2	
CRC	ī	1	Coarse Cherty	10	1.2	
CRV	<u> </u>	1	Very Cherty	10	1.2	
CRV-L		ī	Very Cherty & Loam	10	1.2	
CRV-SIL	1		Very Cherty & Silty Loam		1.2	
CRX		1	Extremely Cherty	10	1.3	
CRX-SIL		1	Extremely Cherty & Silty Loam	10	1.3	
DΕ	0	0	Diotomaccous Earth	— _{N/A}	N/A	
FB	0	0	Fibric Material	N/A	N/A	
FINE	0	0	Fine	N/A	N/A	
FL	()	0	Flaggy	— _{N/A}	N/A	
FL-FSL	0	1	Flaggy & Fine Sandy Loam	5	1.1	Would effect trenching operations only
FL·L	0	0	Flaggy & Loam	N/A	N/A	
FL-SIC	0	0	Flaggy & Silty Clay	N/A	N/A	
FL-SICL	()	0	Flaggy & Silty Clay Loam	N/A	N/A	
FL-SIL	0	0	Flaggy & Silty Loam	N/A	N/A	
FL-SL	Ü	0	Flaggy & Sandy Loam	N/A	N/A	
FLV		1	Very Flaggy	₁₀	1.1	
FLV-COSL	i	<u> </u>	Very Flaggy & Coarse Sandy Loam	10	1.1	
FLV-L	<u> </u>	Ţ	Very Flaggy & Loam	10	1.1	
FLV-SICL	i	1	Very Flaggy & Silty Clay Loam	10	1.1	
FLV-SL	1	ī	Very Flaggy & Sandy Loam	10	1.1	
FLX	1	1	Extremely Flaggy	10	1.1	
FLX-L		<u> </u>	Extremely Flaggy & Loamy	10	1.1	`
FRAG	U	0	Fragmental Material	N/A	N/A	
FS	0		Fine Sand	15	1.1	Would affect trenching operations only
FSL_	0	11	Fine Sandy Loam	15	1.1	Would effect trenching operations only
G	Ü	0	Gravel	N/A	N/A	
GR	0	0	Gravelly	N/A	N/A	
GR-C	0	0	Gravel & Clay	N/A	N/A	
GR-CL	0	0	Gravel & Clay Loam	N/A	N/A	
GR-COS	0	0	Gravel & Course Sand	N/A	N/A	
GR-COSL	0	0	Gravel & Coarse Sandy Loam	N/A	N/A	
GR-FS	Ü	0	Gravel & Fine Sand	N/A	N/A	
GR-FSL	()	0	Gravel & Fine Sandy Loam	N/A	N/A	
GR-L	0	0	Gravel & Loam	N/A	N/A	

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GR-LCOS	0	0	Gravel & Loamy Course Sand	N/A	N/A	
GR-LFS	()	<u>*</u>	Gravel & Loamy Fine Sand	10	1.1	Would effect trenching operations only
GR-LS	()	0	Gravel & Loamy Sand	N/A	N/A	viola tilet i ellelling operations only
GR-MUCK	0	0	Gravel & Muck	N/A	N/A	
GR-S	()	0	Gravel & Sand	N/A	N/A	
GR-SCL	0	0	Gravel & Sandy Clay Loam	N/A	N/A	
GR-SIC	0	0	Gravel & Silty Clay	N/A	N/A	
GR-SICL	6	0	Gravel & Silty Clay Loam	N/A	N/A	
GR-SIL	0	0	Gravel & Silty Loam	N/A	N/A	
GR-SL	0	0	Gravel & Sandy Loam	N/A	N/A	
GR-VFSL	6	<u> </u>	Gravel & Very Fine Sandy Loam	10	1.1	Would effect trenching operations only
GRC	0	0	Course Gravelly	N/A	N/A	440010 ellect trancining operations only
GRE	0	0	Fine Gravel	N/A	N/A	
GRF-SIL	0	0	Fine Gravel Silty Loam	N/A	N/A	
GRV	 		Very Gravelly	NA	NA	
GRV-CL		0	Very graveity & Clay Loam	NA NA	NA	
GRV-CUS	\	0	Very Gravelly & Course Sand	NA NA	NA NA	
GRV-COS	 		Very Gravelly & Course Sandy Loam	NA	NA NA	
GRV-ESL	 -	0	Very Gravelly & Fine Sandy Loam	NA NA	NA	
GRV-FSL	 		Very Gravelly & Loam	NA	NA NA	
GRV-LCO	 		Very Gravelly & Loamy Course Sand	NA	NA NA	
GRV-LS	}	- 0	Very Gravelly & Loamy Sand	NA	NA NA	
GRV-S	 		Very Gravelly & Sand	NA	NA	
GRV-SCL	·		Very Gravelly & Sandy Clay Loam	NA NA	NA NA	
GRV-SICL	 	0	Very Gravelly & Sality Clay Loam	NA	NA NA	
GRV-SIL	 	0	Very Gravelly & Silt	NA	NA NA	
GRV-SIL	 	0	Very Gravelly & Sandy Loain	NA NA	NA NA	
GRV-SC	 	 	Very Gravelly & Very Fine Sand	NA	NA NA	•
GRV-VFSI			Very Gravelly & Very Fine Sandy Loam	NA NA	NA NA	
GRX	1 - :	 	Extremely Gravelly	20	1.1	
GRX-CL	 	 	Extremely Gravelly & Coarse Loam	20	1.1	
GRX-COS		 	Extremely Gravelly & Coarse Sand	20	1.1	
GRX-COS		 	Extremely Gravelly & Coarse Sandy Loam	20	1.1	
GRX-FSL	 	 	Extremely Gravelly & Fine Sand Loam	20	1.1	
GRX-FSL	 	 	Extremely Gravelly & Loam	20	1.1	
GRX-LCO		 	Extremely Gravelly & Loamy Coarse	20	1.1	
GRX-LCO	1 1	 	Extremely Gravelly & Loamy Coarse Extremely Gravelly & Loamy Sand	20	1.1	
GRX-S	 	 	Extremely Gravelly & Sand	20	1.1	
GRX-SIL	 		Extremely Gravelly & Silty Loam	20	1.1	
	 	┤─ ┼─	Extremely Gravelly & Sandy Loam	20	1.1	
GRX-SL	 _	<u> </u>	Extremely Oravens & Sandy Loam	, AU	1.1	

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GYP	ı	i	Gypsiferous Material	10	1.2	
IIM	0	O	Hemic Material	N/A	N/A	
ICE.	1	1	Ice or Frozen Soil	NA NA	1.5	Would not apply only in emergency
IND	1	1	Indurated	20	1.2	Hard (above) conditions -reschedule
i.	()	0	Loam	N/A	N/A	
LCOS	0	0	Loamy Course Sand	N/A	N/A	
LFS	0	1	Loamy Fine Sand	10	1.1	Would effect trenching operations only
I.S	()	0	Loamy Sand	N/A	N/A	
LVFS	()	0	Loamy Very Fine Sand	N/A	N/A	
MARL	0	0	Mari	N/A	N/A	
MEDIUM (()	0	Medium Course	N/A	N/A	
MK	0	0	Mucky	N/A	N/A	Contractors would utilize wide track
MK-C	()	0	Mucky Clay	N/A	N/A	equipment in mucky and peat soil texture
MK-CL	0	Ô	Mucky Clay Loam	N/A	N/A	
MK-FS	0	0	Muck & Fine Sand	N/A	N/A	
MK-FSI.	0	0	Muck & Fine Sandy Loam	N/A	N/A	
MK-L	()	0	Mucky Loam	N/A	N/A	1
MK-LFS	()	Ö	Mucky Loamy Fine Sand	N/A	N/A	
MK-LS	()	0	Mucky Loamy Sand	N/A	N/A	
MK-S	()	o	Muck & Sand	N/A	N/A	
MK-SI	()	0	Mucky & Silty	N/A	N/A	
MK-SICI.	()	0	Mucky & Silty Clay Loam	N/A	N/A	
MK-SIL	()	0	Mucky Silt	N/A	N/A	
MK-SL	()	0	Mucky & Sandy Loam	N/A	N/A	
MK-VFSL	()	0	Mucky & Very Fine Sandy Loam	N/A	N/A	
MPT	()	0	Mucky Pent	N/A	N/A	
MUCK	U	0	Muck	N/A	N/A	
PEAT	()	Ō	Pcat	M/A	N/A	•
PT	()	0	Penty	N/A	N/A	
RB	1	ī	Rubbly	1	1.5	Rubbish - landfill environments - rare
RB-FSL	ı	1	Rubbly Fine Sandy Loam	1	1.5	Rubbish - fandfill environments - rare
S	0	Ō	Sand	N/A	N/A	
SC	0	Ō	Sandy Clay	N/A	N/A	
SCL	0	Ō	Sandy Clay Loam	N/A	N/A	
SG	0	0	Sand & Gravel	N/A	N/A	
SII	0	0	Shaly	N/A	N/A	
SII-CL	0	0	Shaly & Clay	N/A	N/A	
SII-L	0	0	Shale & Losm	N/A	N/A	
SII-SICL	0	0	Shaly & Silty Clay Loam	N/A	N/A	
SII-SIL	()	ō	Shaly & Silt Loam	N/A	N/A	

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SHIV-CL	
SIC	
Sit	
SIC	
SICL 10 0 Silty Clay Loam N/A	
SIL 0	
SI	
SP	
SR	
ST	
ST-C	
ST-CL 0 0 Stony & Clay Loam N/A N/A ST-COSL 0 0 Stony & Course Sandy Loam N/A N/A ST-FSL 0 1 Stony & Fine Sandy Loam 10 1.1 Would effect trenching operation ST-L 0 0 Stony & Loamy N/A N/A N/A ST-LCOS 0 0 Stony & Loamy Course Sand N/A N/A N/A ST-LFS 0 1 Stony & Loamy Fine Sand 10 1.1 Would effect trenching operation ST-LFS 0 0 Stony & Loamy Fine Sand N/A N/A N/A ST-LFS 0 0 Stony & Loamy Sand N/A N/A N/A ST-LFS 0 0 Stony & Silty Clay N/A N/A N/A ST-SIC 0 0 Stony & Silty Clay Loam N/A N/A N/A ST-SIL 0 0 Stony & Sandy Loam N/A N/A N/A ST	
ST-COSL 0 Stony & Course Sandy Loam N/A N/A ST-FSL 0 1 Stony & Fine Sandy Loam 10 1.1 Would effect trenching operation ST-L 0 0 Stony & Loamy N/A N/A N/A ST-LCOS 0 0 Stony & Loamy Course Sand N/A N/A N/A ST-LFS II 1 Stony & Loamy Fine Sand 10 1.1 Would effect trenching operation ST-LFS II 1 Stony & Loamy Fine Sand N/A N/A ST-LFS II 0 Stony & Loamy Fine Sand N/A N/A ST-SIC II 0 Stony & Silty Clay N/A N/A ST-SIC II 0 Stony & Silty Loam N/A N/A ST-SIL II 0 Stony & Sandy Loam N/A N/A ST-SIL II 0 Stony & Sandy Very Fine Silty Loam 10 1.1 Would effect trenching operation ST-SIL II II	
ST-FSL 0 1 Stony & Fine Sandy Loam 10 1.1 Would effect trenching operation ST-L 0 0 Stony & Loamy N/A N/A ST-LCOS 0 0 Stony & Loamy Course Sand N/A N/A ST-LFS II 1 Stony & Loamy Fine Sand 10 1.1 Would effect trenching operation ST-LS II 0 Stony & Loamy Fine Sand N/A N/A ST-SIC II 0 Stony & Silty Clay N/A N/A ST-SIC II 0 Stony & Silty Clay Loam N/A N/A ST-SIL II 0 Stony & Sindy Loam N/A N/A ST-SIL II 0 Stony & Sandy Loam N/A N/A ST-SIL II 0 Stony & Sandy Very Fine Silty Loam 10 1.1 Would effect trenching operation STV-CL I I Very Stony & Clay 10 1.2 STV-CL I I Very Stony & Clay Loam </td <td></td>	
ST-L U 0 Stony & Loamy N/A N/A ST-LCOS 0 0 Stony & Loamy Course Sand N/A N/A ST-LFS II 1 Stony & Loamy Fine Sand 10 1.1 Would effect trenching operation ST-LFS II 0 Stony & Loamy Sand N/A N/A ST-SIC II 0 Stony & Silty Clay N/A N/A ST-SICL II 0 Stony & Silty Clay Loam N/A N/A ST-SIL II 0 Stony & Sandy Loam N/A N/A ST-VFSL II 1 Stony & Sandy Very Fine Silty Loam 10 1.1 Would effect trenching operation STV-C I I Very Stony & Clay 10 1.2 STV-CL I I Very Stony & Clay Loam 10 1.2 STV-CL I I Very Stony & Clay Loam 10 1.2	s only
ST-LCOS	•
ST-LFS	
ST-LS 0 0 Stony & Loany Sand N/A N/A ST-SIC 0 0 Stony & Silty Clay N/A N/A ST-SICL 0 0 Stony & Silty Clay Loam N/A N/A ST-SIL 0 0 Stony & Sandy Loam N/A N/A ST-SL 0 0 Stony & Sandy Loam N/A N/A ST-VFSL 0 1 Stony & Sandy Very Fine Silty Loam 10 1.1 Would effect trenching operation STV-C 1 1 Very Stony & Clay 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2	s only
ST-SIC U D Stony & Sitty Clay N/A N/A ST-SICL D 0 Stony & Sitty Clay Loam N/A N/A ST-SIL U 0 Stony & Sitt Loam N/A N/A ST-SL U 0 Stony & Sandy Loam N/A N/A ST-VFSL U 1 Stony & Sandy Very Fine Silty Loam 10 1.1 Would effect trenching operation STV-C 1 1 Very Stony 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2	
ST-SICL 0 0 Stony & Silty Clay Loam N/A N/A ST-SIL 0 0 Stony & Silt Loam N/A N/A ST-SL 0 0 Stony & Sandy Loam N/A N/A ST-VFSL 0 1 Stony & Sandy Very Fine Silty Loam 10 1.1 Would effect trenching operation STV 1 1 Very Stony 10 1.2 STV-C 1 1 Very Stony & Clay 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2	
ST-SIL 0 0 Stony & Sill Loam N/A N/A ST-SL 0 0 Stony & Sandy Loam N/A N/A ST-VFSL 0 1 Stony & Sandy Very Fine Silty Loam 10 1.1 Would effect trenching operation STV 1 1 Very Stony 10 1.2 STV-C 1 1 Very Stony & Clay 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2	
ST-SL 0 0 Stony & Sandy Loam N/A N/A ST-VFSL 0 1 Stony & Sandy Very Fine Silty Loam 10 1.1 Would effect trenching operation STV 1 1 Very Stony & Clay 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 1.2 STV-CL 1 Very Stony & Clay Loam 10 STV-CL 1 STV-CL 1 Very Stony & Clay Loam 10 STV-CL 1 STV-CL 1 Very Stony & Clay Loam 10 STV-CL 1 S	
ST-VFSL 0 1 Stony & Sandy Very Fine Silty Loam 10 1.1 Would effect trenching operation STV 1 1 Very Stony 10 1.2 STV-C 1 1 Very Stony & Clay 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2	
STV I Very Stony 10 1.2 STV-C I Very Stony & Clay 10 1.2 STV-CL I Very Stony & Clay Loam 10 1.2	s only
STV-C 1 Very Stony & Clay 10 1.2 STV-CL 1 1 Very Stony & Clay Loam 10 1.2	
STV-CL 1 Very Stony & Clay Loam 10 1.2	
STV-L 1 1 Very Stony & Loamy 10 1.2	
STV-LFS I Very Stony & Loamy Fine Sand 10 1.2	
STV-LS I Vcry Stony & Loamy Sand 10 1.2	
STV-MPT I I Very Stony & Mucky Pest 10 1.2	
STV-MUCH I Very Stony & Muck 10 1.2	
STV-SICL 1 1 Very Stony & Silty Clay Loam 10 1.2	
STV-SIL 1 1 Very Stony & Silty Loam 10 1.2	
STV-SL I I Very Stony & Sandy Loam 10 1.2	
STV-VFSL 1 1 Very Stony & Very Fine Sandy Loam 10 1.2	
STV-VFSL 1 Very Stony & Very Fine Sandy Loam 10 1.2	
STX I Extremely Stony 10 1.3	
STX-C I Extremely Stony & Clay 10 1.3	

HIGHLY CONFIDENTIAL SUBJECTIVE ORDERS AND STATE OF THE CONFIDENTIAL AGREEMENTS

Page 6

S1 X-CL	1] !	Extremely Stony & Clay Loain	10	1.3
STX-COS			Extremely Stony & Course Sand	10	1.3
STX-COSL			Extremely Stony & Course Sand Loam	10	1.3
STX-FSL			Extremely Stony & Fine Sandy Loam	10	1.3
STX-L			Extremely Stony & Loamy	10	1.3
STX-LCOS			Extremely Stony & Loamy Course Sand	10	1.3
STX-LS		1	Extremely Stony & Loamy Sand	10	1.3
STX-MUCH	1	1	Extremely Stony & Muck	10	1.3
STX-SIC	-	1	Extremely Stony & Silty Clay	10	1.3
STX-SICI.		1	Extremely Stony & Silty Clay Loam	10	1.3
STX-SIL	1	1	Extremely Stony & Silty Loam	10	1.3
STX-SL	1		Extremely Stony & Sandy Loam	10	1.3
STX-VFSL			Extremely Stony & Very Fine Sandy Loam	10	1.3
SY	1		Slaty	5	3.0
SY-L			Slaty & Losm	5	3.0
SY-SIL		1	Staty & Silty Loam	5	3.0
SYV	_		Very Slaty_	5	3.5
SYX		1	Extremely Slaty	5	4.0
UNK	0	0	Unknown	N/A	N/A
UWB	1	1	Unweathered Bedrock	5	2.0
VAR	0	0	Variable	N/A	N/A
VFS	0	0	Very Fine Sand	N/A	N/A
VFSL	0	0	Very Fine Sandy loam	N/A	N/A
WB	[i		Weathered Bedrock	5	3.0



		24 Gauge Underg	round Copper Cable		24 Gauge Buri	ed Copper Cable		24 Gauge Aerial Copper Cable				
Cable Size	Original NRRI Study with Engineering & Splicing Loadings*	FCC Modified NRRI Study w/ Huber Adj. & Engineering & Splicing Loadings**	FCC Modified NRRI Study w/ Huber Adj., Engineering and Splicing Loadings, and Superior Buying Adj.	FCC Proposed Input Values	Original NRRI Study with Engineering & Splicing Loadings*	FCC Modified NRRI Study w/ Huber Adj. & Engineering & Splicing Loadings**	FCC Modified NRRI Study w/ Huber Adj., Engineering and Splicing Loadings, and Superior Buying Adj.	FCC Proposed Input Values	Original NRRI Study with Engineering & Splicing Loadings*	FCC Modified NRRI Study w/ Huber Adj. & Engineering & Splicing Loadings**	FCC Modified NRRI Study w/ Huber Adj., Engineering and Splicing Loadings, and Superior Buying Adj.	FCC Proposed Input Values
(A)	(B)	(C)	(D)	(E)	(G)	(H)	(1)	(1)	(L)	(M)	(N)	(O)
4,200	\$57.42	(\$2.25)	(\$15.28)	\$39.32	\$65.16	\$83.80	\$71.21	\$46.25	\$52.25	\$49.82	\$42.43	\$42.43
3,600	\$49.85	\$8.68	(\$2.49)	\$33.70	\$56.28	\$71.96	\$61.17	\$39.78	\$45.03	\$42.88	\$36.54	\$36.54
3,000	\$42.28	\$1 6.17	\$6.87	\$28.09	\$47.41	\$60.13	\$51.14	\$33.31	\$37.81	\$35.93	\$30.66	\$30.66
2,400	\$34.71	\$20.23	\$12.79	\$22.47	\$38.53	\$48.29	\$41.10	\$26.84	\$30.59	\$28.99	\$24.77	\$24.77
2,100	\$30.93	\$20.97	\$14.4 6	\$19.66	\$34.09	\$42.38	\$36.08	\$23.60	\$26.98	\$25.52	\$21.83	\$21.83
1,800	\$27.15	\$20.85	\$15.27	\$19.10	\$2 9 .65	\$36.46	\$31.06	\$20.37	\$23.37	\$22.05	\$18.88	\$18.88
1,200	\$19.58	\$18.03	\$14.30	\$16.02	\$20.77	\$24.63	\$21.03	\$13.90	\$16.15	\$15.11	\$13.00	\$13.00
900	\$15.79	\$15.33	\$12.54	\$ 13.51	\$16.34	\$18.71	\$16.01	\$10.66	\$12.54	\$11.63	\$10.05	\$10.05
600	\$12.01	\$11.77	\$9.91	\$10.35	\$11.90	\$12.79	\$10.99	\$7.43	\$8.93	\$8.16	\$7.11	\$7.11
400	\$9.48	\$8.92	\$7.68	\$7.88	\$8.94	\$8.85	\$7.65	\$5.27	\$6.53	\$5,85	\$5.15	\$ 5.15
300	\$8.22	\$ 7.35	\$6.42	\$6.53	\$7.46	\$6.87	\$5.97	\$4.19	\$5.32	\$4.69	\$4.16	\$4.16
200	\$6,96	\$5.68	\$5.06	\$5.11	\$5.98	\$4.90	\$4.30	\$3.11	\$4.12	\$3.54	\$3.18	\$3.18
100	\$5.70	\$3.92	\$3.61	\$3.63	\$4.50	\$2.93	\$2.63	\$2.03	\$2.92	\$2.38	\$2.20	\$2.20
50	\$ 5.07	\$3.01	\$2.85	\$2.86	\$3.76	\$1.94	\$1.79	\$1.49	\$2.31	\$1.80	\$1.71	\$1.71
25	\$4.75	\$2.54	\$2.46	\$2.46	\$3.39	\$1.45	\$1.37	\$1.22	\$2.01	\$1.51	\$1.47	\$1.47
18	\$4.67	\$2.41	\$2.35	\$2.35	\$3.29	\$1.31	\$1.26	\$1,15	\$1.93	\$1.43	\$1.40	\$1.40
12	\$4.59	\$2.30	\$2.26	\$2.26	\$3.20	\$1.19	\$1.16	\$1.08	\$1.86	\$1.36	\$1.34	\$1.34
6	\$4.51	\$2.18	\$2.16	\$2.16	\$3.11	\$1.07	\$1.06	\$1.02	\$1.79	\$1.29	\$1.28	\$1.28
1	\$4.45	\$2.09	\$2.08	\$2.06	\$3.03	\$0.97	\$0.97	\$0.97	\$1.73	\$1.23	\$1.23	\$1.23

NRRI Study recommends a 15% engineering loading and 9.4% splicing loading for copper cable.
 FCC uses a 10% engineering loading and 9.4% splicing loading for copper cable.



